

CLAIMS

1. Auxiliary device for excavator with articulated arms, said excavator having at least one mobile excavation tool which is movable in rotation under the action of operating means, characterized by including:

at least one supporting element that may be fastened to at least one of said articulated arms;

at least one movable grip element; and

rigid mechanical connection means to mechanically connect said movable grip element to said excavation tool and transmit to said grip element a movement generated by said rotation operating means of said excavation tool.

2. A device according to claim 1, wherein said excavation tool and said grip element are mobile with respect to each other, approaching up to a closing position and moving away up to an opening position.

3. A device according to claim 1, wherein said rigid mechanical connection means include rods that connect said grip element to an articulation system of said excavation tool.

4. A device according to claim 3, wherein said rods are connected to the articulation system by means of a removable pin.

5. A device according to claim 1, wherein said grip element is movable in translation along a rectilinear direction.

6. A device according to claim 1, wherein said grip element is slidably mounted in guide means included in said supporting element.

7. A device according to claim 6, wherein the ends of said guide means are open.

8. A device according to claim 6 or 7, wherein said grip element includes a base portion engaged in said guide means, said base

portion protruding at least partly from said ends of the guide means when said grip element is in opening or closing position.

9. A device according to any of claims 6 to 8, wherein said grip element can be extracted from said guide means through any one of the open ends of the same.

10. Excavator with articulated arms including at least one excavation tool rotably mounted on one of said articulated arms and means to actuate the operation in rotation of said excavation tool, characterized by including:

an auxiliary device mounted on at least one of said articulated arms and having at least one supporting element and at least one movable grip element; and

rigid mechanical connection means to connect said movable grip element to said excavation tool and mechanically transmit to said grip element a movement generated by said means for actuating the operation in rotation of said excavation tool.

11. An excavator according to claim 10, wherein said excavation tool and said grip element are movable with respect to each other, toward to each other up to a closing position and away from each other up to an opening position.

12. An excavator according to claim 10, wherein said rigid mechanical connection means include rods that connect said grip element to an articulation system of said excavation tool.

13. An excavator according to any of claims 10 to 12, wherein the ends of said rods are connected to said articulation joint by means of a removable pin.

14. An excavator according to any of claims 10 to 13, wherein said means for actuating the operation in rotation of said excavation tool include an hydraulic jack.

15. An excavator according to any of claims 10 to 14, wherein said rigid mechanical connection rods are hinged at the end of the mobile stem of said hydraulic jack.
16. An excavator according to claim 10, wherein said supporting element is fixed to at least one of said articulated arms by welding.
17. An excavator according to claim 10, wherein said grip element is slidably mounted in guide means included in said supporting element.
18. An excavator according to claim 17, wherein the ends of said guide means are open.
19. An excavator according to claim 17 or 18, wherein said grip element includes a base portion engaged in said guide means, said base portion protruding at least partly from said ends of the guide means when said grip element is in opening position or closing position.
20. An excavator according to claim 10, wherein said at least one movable grip element includes a grip portion having a width smaller than the width of said excavation tool.